

# Smart Card Security Information Configuration and Recovery System

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## ABSTRACT

10 A smart card security information configuration and recovery system provides a  
secure Web site and server that allows smart card users to easily create and  
obtain smart cards and passwords. The client program accesses the smart card  
inserted into the client computer and retrieves the smart card's ID and other user  
and system information and sends them to the server which creates an access  
key. The access key and the smart card ID are stored in the client computer's  
CMOS or non-volatile memory for boot-up access. The client computer will  
boot only if the proper smart card is installed or the proper access key is entered  
15 when the smart card is unavailable. If the user loses his smart card, then he must  
gain access to his computer through the access key which the server issues after  
the user logs in. When the user wants to get a new smart card issued, he logs  
onto the server which is sent the new smart card's ID that replaces the previous  
smart card's ID and the server generates a new access key and stores it. The  
20 new access key and the smart card's ID are stored in the client computer's  
CMOS or non-volatile memory for boot access.